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MELBOURNE          **Subjects**        Communities        Manage Content                                ao li      3 ▼

🏠          Weekly Quiz    **Take Test: Interprocess Communication**                                                        ?

# Take Test: Interprocess Communication

**Test Information**

Description

Instructions

Multiple        This test allows multiple attempts.
Attempts

Force           This test can be saved and resumed later, unless it is a timed test. Once you start a timed
Completion      test, the timer contin...    ⩔ Question Completion Status:

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│   Save All Answers  │ │  Save and Submit    │
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### QUESTION 1                                        **10 points**   │ Save Answer │

Which one of the following data representations is not considered human readable?

○ a. XML

○ b. JSON

○ c. CORBA's Common Data Representation

○ d. Java's Object Serialization

○ e. Both c) and d)

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### QUESTION 2                                        **10 points**   │ Save Answer │

Which one of the following is most likely not true concerning Sockets?

○ a. Any number of processes can send messages to the same port.

○ b. The same socket can be used both for sending and receiving messages.

○ c. For a process to receive messages, its socket must be bound to the port of the sending
  process.

○ d. Each socket is associated with a single protocol (UDP or TCP).

○ e. Ports cannot be shared between processes for receiving messages.

**QUESTION 3**                                                    10 points    | Save Answer |

Which one of the following is most likely not true concerning the RRA procotol?

- ○ a. The server maintains the results of a request until an acknowledgement is received.
- ○ b. After sending a request, the client will wait for the reply.
- ○ c. The RRA protocol handles certain circumstances that are not handled by the RR protocol.
- ○ d. Acknowledgements are only needed in the case of message transmission error.
- ○ e. Acknowledgements can be piggy-backed on request messages.

**QUESTION 4**                                                    10 points    | Save Answer |

Which one of the following is most likely not true concerning TCP?

- ○ a. The consumer must w    ⤋ Question Completion Status:
- ○ b. Provides a message passing abstraction.
- ○ c. Provides and abstraction for two-way streams.
- ○ d. Data sent by the producer are queued until the consumer is ready to receive them.
- ○ e. Streams do not have message boundaries.

**QUESTION 5**                                                    10 points    | Save Answer |

Which of the following is not an issue relating to UDP datagram communication?

- ○ a. Messages may be dropped due to a lack of buffer space available at the source or destination.
- ○ b. Increased overhead derived from establishing a connection between the sender and the receiver.
- ○ c. Messages may be delivered out of sender order.
- ○ d. The receiving process needs to specify the size of the array of bytes in which a message is received.
- ○ e. Duplicate messages may be delivered to the receiver.

**QUESTION 6**                                                    10 points    | Save Answer |

Which of the following is not characteristic of reliable multicast?

- ○ a. If a message is delivered to one process, then it is delivered to all processes in the group.
- ○ b. The message received is the same as the one sent.
- ○ c. If a process sends one message before another, they will be delivered in this order to all processes in the group.

○ d. It guarantees that a message is not delivered twice.

○ e. It guarantees that a message sent will eventually be delivered.

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### QUESTION 7

**10 points** | Save Answer

Which of the following would be a good reason to choose TCP rather than UDP?

○ a. You need to know that a message is processed by the remote application.

○ b. You have large messages or a sequence of messages.

○ c. You have a small message that should be sent with little delay.

○ d. TCP will guarantee the delivery of a message.

○ e. Both b) and d).

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### QUESTION 8

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Which of the following is not true?

○ a. An arbitrary number of processes may send messages to the same port.

○ b. Processes can make use of multiple ports to receive messages.

○ c. A particular socket is associated with an IP address and a port number.

○ d. For a process to receive messages, its socket must be bound to a remote port and the IP address of the computer on which it runs.

○ e. Processes may use the same socket for sending and receiving messages.

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### QUESTION 9

**10 points** | Save Answer

Which of the following is not an advantage of TCP over UDP?

○ a. TCP regulates the rate at which packets enter the network to reduce congestion.

○ b. TCP ensures the messages are delivered to the receiving process in the same order as they were sent.

○ c. TCP does not require that the receiving process specifies an array of bytes of a particular size in which to receive a message.

○ d. TCP provides a mechanism to retransmit missing or dropped packets.

○ e. Sending packets using TCP is typically faster since a connection does not need to be established.

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### QUESTION 10

**10 points** | Save Answer

Which of the following is a characteristic of synchronous interprocess communication?

○ a. The sender and the receiver must have synchronized clocks

a. The sender and the receiver must have synchronized clocks.

b. It is implemented over TCP.

c. The sender can continue without waiting for the receive operation.

d. The send operation blocks and waits for the receive operation to complete.

e. The delivery of messages is guaranteed.

Save All Answers          Save and Submit

⹀ Question Completion Status: